Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT	Article 36 and Rule 70)				
Applicant's or agent's file reference					
	HER ACTION	See Form PCT/IPEA/416			
International application No. International f	iling date (day/month/year)	Priority date (day/month/year)			
PC1/JP2003/004069 31 Marc	h 2003 (31.03.2003)	(auymoninyear)			
International Patent Classification (IPC) or national classification and IPC D02G 3/38					
Applicant HIR	COTA, Yusuke				
 This report is the international preliminary examinate Authority under Article 35 and transmitted to the app 	on report, established by this	International Preliminary Examining			
**	to Afficie 30	J.			
 This REPORT consists of a total of	sheets, including this cover s	heet.			
a. (sent to the applicant and to the Internation	orising:				
a. (sent to the applicant and to the Internation	nal Bureau) a total of 2	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the					
b. [_] (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the					
4. This report contains indications relating to the following					
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion wi	th regard to manufact	e step and industrial applicability			
Box No. IV Lack of unity of invention	an rogard to hoverty, inventiv	e step and industrial applicability			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Day No. 14					
Box No. VI Certain documents cited	rung such statement	1,200,000			
Box No. VII Certain defects in the internations	al annication				
Box No. VIII Certain observations on the international application					
ate of submission of the demand	Date of completion of the	his rough			
30 August 2004 (30.08.2004)		ay 2005 (11.05.2005)			
ame and mailing address of the IPEA/JP	Authorized officer	-, -000 (11.03.2003)			
csimile No.	Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/004069

Box No). I 	Basis of the report				
1. With othe	ı regare rwise i	d to the language, this report is based on the international application in the landicated under this item.	nguage in which it was filed, unless			
	This report is based on translations from the original language into the following language which is language of a translation furnished for the purpose of:					
1		international search (under Rules 12.3 and 23.1(b))				
}	publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)					
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	are not	d to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referrannexed to this report): International application as originally filed/furnished	(replacement sheets which have been red to in this report as "originally filed"			
X		escription:				
	pages	•				
	pages		, as originally filed/furnished			
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	pages	3,0,7	, as originally filed/furnished			
	pages	, as amended (tog	gether with any statement) under Article 19			
	pages	received by this Authority on				
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		awings:				
	pages pages	1/4-4/4	, as originally filed/furnished			
	pages'	Toocived by this Authority on				
		received by this Authority on				
Ш	a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Se	quence Listing.			
3. 🔯	The ar	nendments have resulted in the cancellation of:				
	_	the description, pages				
	=					
	H	the drawings, sheets/figs				
	\vdash	the sequence listing (specify):				
	L.)	any table(s) related to sequence listing (specify):				
	(Rule 7	eport has been established as if (some of) the amendments annexed to this resince they have been considered to go beyond the disclosure as filed, as 70.2(c)). the description, pages	eport and listed below had not been indicated in the Supplemental Box			
		ies, some or all of those sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/04069

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	support	ing such statement	industrial applicability;		
1.	Statement				
	Novelty (N)	Claims	1-10, 13	YES	
		Claims		NO NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-10, 13	NO	
	Industrial applicability (IA)	Claims	1-10, 13	YES	
		Claims			
2.	Citations and explanations			NO	

Document 1: JP 5-179535 A

Document 2: JP 11-1835 A

Claims 1 to 10 and 13

Documents 1 and 2

Document 1 discloses a fiber material comprising a synthetic fiber containing titanium oxide and a natural fiber (claims, paragraph [0011]), and discloses the use of polyester fiber and nylon fiber as the synthetic fiber (paragraph [0011]).

Document 2 discloses a fiber material comprising a natural fiber and a polyester fiber containing titanium oxide (claims, paragraph [0011]).

Documents 1 and 2 do not make any particular disclosures pertaining to the use of silk or animal hair fibers as the natural fiber, but this type of fiber provides the same effect as natural fibers such as cotton, linen, or rayon, and the use thereof is merely a widely implemented feature (if more documentation pertaining to this feature is necessary, see: JP 4-257333 A (claim 3), WO 01/88237 A (claim 4), or JP 2002-275736 A (claim 2)).

Further, the combination of titanium oxide and silk fiber is a merely a known technique, as the applicant himself notes in the presentation of prior art documents in the background art portion of the description.

Thus, a person skilled in the art could easily conceive of simply using the above two types of fiber-which are merely representative materials, widely used as materials that produce the same effect as natural fibers such as cotton, and which are known in combination with titanium oxide—as the natural fiber in the invention disclosed in documents 1 and 2.

Moreover, even considering the possible effect of selecting the above two fibers, the description cannot be said to provide any disclosure pertaining to the advantages of using the above two fibers. Further, a feature wherein a synthetic fiber is made to contain titanium oxide is disclosed in detail in documents 1 and 2, and as the applicant himself notes, it is known that titanium oxide prevents yellowing, and thus, the invention cannot be considered to produce an exceptional effect.

INTERNATIONAL SEARCH REPORT

From DCT/19A/210 (cacond cheet) (July 1998)

International application No.

PCT/JP03/04069

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ D02G3/38							
According	to International Patent Classification (IPC) or to both	national classification and IPC					
	DS SEARCHED						
Int.	Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ D02G, D02J						
Jits Koka	tion searched other than minimum documentation to the uyo Shinan Koho 1926-1996 i Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	no 1994–2003 no 1996–2003				
	data base consulted during the international search (na	ame of data base and, where practicable, sea	rch terms used)				
WPIL							
C. DOCU	MENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.				
X	JP 5-179535 A (Unitika Ltd. 20 July, 1993 (20.07.93), Claims; Par. Nos. [0010] to (Family: none)		1-13				
. X	JP 11-1835 A (Asahi Chemica 06 January, 1999 (06.01.99), Claims; Par. No. [0011] (Family: none)		1-13				
A	JP 4-91238 A (Unitika Ltd.) 24 March, 1992 (24.03.92), All references (Family: none)	,	1-13				
Further	r documents are listed in the continuation of Box C.	See patent family annex.					
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "E" earlier document but published on or after the international filing date "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 27 June, 2003 (27.06.03) "C" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search 27 June, 2003 (27.06.03) Date of mailing of the international search report 15 July, 2003 (15.07.03)							
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer					
Facsimile No.		Telephone No.					